JETP Letters 1997 vol.66 N8, pages 562-568

Manifestations of the Larkin-Ovchinnikov-Fulde-Ferrell state in bimetal ferromagnet-superconductor structures

Proshin Y., Khusainov M.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Reentrant and periodically reentrant superconductivity in contacts and ferromagnet/superconductor (F/S) superlattices are predicted on the basis of the theory developed in this letter. These effects are consequences of the realization of the Larkin-Ovchinnikov-Fulde-Ferrell state in F layers. An explanation is given for the qualitatively different behavior of the critical temperature observed by different experimental groups on identical F/S structures. © 1997 American Institute of Physics.

http://dx.doi.org/10.1134/1.567546